

# SEQUENCE LISTING

<110> BOOTS, ANNA M.H.  
VERHEIJDEN, GILBERTUS F.M.

<120> NOVEL PEPTIDES SUITABLE FOR USE IN ANTIGEN SPECIFIC  
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<160> 78

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Tyr Thr Ser Trp Ser Gln Tyr Arg Glu Gly Asp Gly Ser Cys Phe Pro  
1 5 10 15

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Tyr Arg Glu Gly Asp Gly Ser Cys Phe Pro Asp Ala Leu Asp Arg Phe  
1 5 10 15

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<211> 16

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<223> Description of Artificial Sequence: DERIVED FROM  
SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

<400> 4

Ser Cys Phe Pro Asp Ala Leu Asp Arg Phe Leu Cys Thr His Ile Ile  
1 5 10 15

<210> 5

<211> 16

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Leu Asp Arg Phe Leu Cys Thr His Ile Ile Tyr Ser Phe Ala Asn Ile  
1 5 10 15

<210> 6

<211> 16

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<400> 6

Thr His Ile Ile Tyr Ser Phe Ala Asn Ile Ser Asn Asp His Ile Asp  
1 5 10 15

<210> 7

<211> 16

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Phe Ala Asn Ile Ser Asn Asp His Ile Asp Thr Trp Glu Trp Asn Asp  
1 5 10 15

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Asp His Ile Asp Thr Trp Glu Trp Asn Asp Val Thr Leu Tyr Gly Met  
1 5 10 15

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<223> Description of Artificial Sequence: DERIVED FROM  
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Glu Trp Asn Asp Val Thr Leu Tyr Gly Met Leu Asn Thr Leu Lys Asn  
1 5 10 15

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Thr Leu Lys Asn Arg Asn Pro Asn Leu Lys Thr Leu Leu Ser Val Gly  
1 5 10 15

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Pro Asn Leu Lys Thr Leu Leu Ser Val Gly Gly Trp Asn Phe Gly Ser  
1 5 10 15

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Leu Ser Val Gly Gly Trp Asn Phe Gly Ser Gln Arg Phe Ser Lys Ile  
1 5 10 15

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Asn Phe Gly Ser Gln Arg Phe Ser Lys Ile Ala Ser Asn Thr Gln Ser  
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Phe Ser Lys Ile Ala Ser Asn Thr Gln Ser Arg Arg Thr Phe Ile Lys  
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<210> 16

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Asn Thr Gln Ser Arg Arg Thr Phe Ile Lys Ser Val Pro Pro Phe Leu  
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Thr Phe Ile Lys Ser Val Pro Pro Phe Leu Arg Thr His Gly Phe Asp  
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His Gly Phe Asp Gly Leu Asp Leu Ala Trp Leu Tyr Pro Gly Arg Arg  
1 5 10 15

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Asp Leu Ala Trp Leu Tyr Pro Gly Arg Arg Asp Lys Gln His Phe Thr  
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<210> 21

<211> 16

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<223> Description of Artificial Sequence: DERIVED FROM  
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Pro Gly Arg Arg Asp Lys Gln His Phe Thr Thr Leu Ile Lys Glu Met  
1 5 10 15

<210> 22

<211> 16

<212> PRT

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<223> Description of Artificial Sequence: DERIVED FROM  
SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

<400> 22

Gln His Phe Thr Thr Leu Ile Lys Glu Met Lys Ala Glu Phe Ile Lys  
1 5 10 15

<210> 23

<211> 16

<212> PRT

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<400> 23

Ile Lys Glu Met Lys Ala Glu Phe Ile Lys Glu Ala Gln Pro Gly Lys

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&lt;211&gt; 16

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<223> Description of Artificial Sequence: DERIVED FROM  
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&lt;400&gt; 24

Glu Phe Ile Lys Glu Ala Gln Pro Gly Lys Lys Gln Leu Leu Leu Ser

1

5

10

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&lt;210&gt; 25

&lt;211&gt; 16

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: DERIVED FROM  
SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

&lt;400&gt; 25

Gln Pro Gly Lys Lys Gln Leu Leu Leu Ser Ala Ala Leu Ser Ala Gly

1

5

10

15

&lt;210&gt; 26

&lt;211&gt; 16

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: DERIVED FROM  
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&lt;400&gt; 26

Leu Leu Leu Ser Ala Ala Leu Ser Ala Gly Lys Val Thr Ile Asp Ser

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10

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&lt;210&gt; 27

&lt;211&gt; 16

&lt;212&gt; PRT



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<223> Description of Artificial Sequence: DERIVED FROM  
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<400> 27

Leu Ser Ala Gly Lys Val Thr Ile Asp Ser Ser Tyr Asp Ile Ala Lys  
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<211> 16

<212> PRT

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Thr Ile Asp Ser Ser Tyr Asp Ile Ala Lys Ile Ser Gln His Leu Asp  
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<210> 29

<211> 16

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<400> 29

Asp Ile Ala Lys Ile Ser Gln His Leu Asp Phe Ile Ser Ile Met Thr  
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<210> 30

<211> 16

<212> PRT

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SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

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Gln His Leu Asp Phe Ile Ser Ile Met Thr Tyr Asp Phe His Gly Ala  
1 5 10 15

<210> 31

<211> 16

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<400> 31

Ser Ile Met Thr Tyr Asp Phe His Gly Ala Gln Arg Gly Thr Thr Gly  
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<210> 32

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<400> 32

Phe His Gly Ala Trp Arg Gly Thr Thr Gly His His Ser Pro Leu Phe  
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<210> 33

<211> 16

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Gly Thr Thr Gly His His Ser Pro Leu Phe Arg Gly Gln Glu Asp Ala  
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<210> 34

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Ser Pro Leu Phe Arg Gly Gln Glu Asp Ala Ser Pro Asp Arg Phe Ser  
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<210> 35

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Gln Glu Asp Ala Ser Pro Asp Arg Phe Ser Asn Thr Asp Tyr Ala Val  
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<210> 36

<211> 16

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Asp Arg Phe Ser Asn Thr Asp Tyr Ala Val Gly Tyr Met Leu Arg Leu  
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<212> PRT

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Asp Tyr Ala Val Gly Tyr Met Leu Arg Leu Gly Ala Pro Ala Ser Lys  
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<210> 38

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<400> 38

Met Leu Arg Leu Gly Ala Pro Ala Ser Lys Leu Val Met Gly Ile Pro  
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Pro Ala Ser Lys Leu Val Met Gly Ile Pro Thr Phe Gly Arg Ser Phe  
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<400> 40

Met Gly Ile Pro Thr Phe Gly Arg Ser Phe Thr Leu Ala Ser Ser Glu  
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<400> 41

Gly Arg Ser Phe Thr Leu Ala Ser Ser Glu Thr Gly Val Gly Ala Pro  
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<210> 42  
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Ala Ser Ser Glu Thr Gly Val Gly Ala Pro Ile Ser Gly Pro Gly Ile  
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<210> 43  
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<400> 43

Val Gly Ala Pro Ile Ser Gly Pro Gly Ile Pro Gly Arg Phe Thr Lys  
1 5 10 15

<210> 44  
<211> 16  
<212> PRT  
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Gly Pro Gly Ile Pro Gly Arg Phe Thr Lys Glu Ala Gly Thr Leu Ala  
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<210> 45

<211> 16

<212> PRT

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<223> Description of Artificial Sequence: DERIVED FROM  
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<400> 45

Arg Phe Thr Lys Glu Ala Gly Thr Leu Ala Tyr Tyr Glu Ile Cys Asp  
1 5 10 15

<210> 46

<211> 16

<212> PRT

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<400> 46

Gly Thr Leu Ala Tyr Tyr Glu Ile Cys Asp Phe Leu Arg Gly Ala Thr  
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<210> 47

<211> 16

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: DERIVED FROM  
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<400> 47

Glu Ile Cys Asp Phe Leu Arg Gly Ala Thr Val His Arg Thr Leu Gly

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&lt;211&gt; 16

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

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<223> Description of Artificial Sequence: DERIVED FROM  
SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

&lt;400&gt; 48

Arg Gly Ala Thr Val His Arg Thr Leu Gly Gln Gln Val Pro Tyr Ala  
1 5 10 15

&lt;210&gt; 49

&lt;211&gt; 16

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: DERIVED FROM  
SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

&lt;400&gt; 49

Arg Thr Leu Gly Gln Gln Val Pro Tyr Ala Thr Lys Gly Asn Gln Trp  
1 5 10 15

&lt;210&gt; 50

&lt;211&gt; 16

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: DERIVED FROM  
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&lt;400&gt; 50

Val Pro Tyr Ala Thr Lys Gly Asn Gln Trp Val Gly Tyr Asp Asp Gln  
1 5 10 15

&lt;210&gt; 51

&lt;211&gt; 16

&lt;212&gt; PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: DERIVED FROM  
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<400> 51

Gly Asn Gln Trp Val Gly Tyr Asp Asp Gln Glu Ser Val Lys Ser Lys  
1 5 10 15

<210> 52

<211> 16

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: DERIVED FROM  
SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

<400> 52

Tyr Asp Asp Gln Glu Ser Val Lys Ser Lys Val Gln Tyr Leu Lys Asp  
1 5 10 15

<210> 53

<211> 16

<212> PRT

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<223> Description of Artificial Sequence: DERIVED FROM  
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<400> 53

Val Lys Ser Lys Val Gln Tyr Leu Lys Asp Arg Gln Leu Ala Gly Ala  
1 5 10 15

<210> 54

<211> 16

<212> PRT

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<400> 54

Tyr Leu Lys Asp Arg Gln Leu Ala Gly Ala Met Val Trp Ala Leu Asp  
1 5 10 15

<210> 55

<211> 16

<212> PRT

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SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

<400> 55

Leu Ala Gly Ala Met Val Trp Ala Leu Asp Leu Asp Asp Phe Gln Gly  
1 5 10 15

<210> 56

<211> 16

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<400> 56

Trp Ala Leu Asp Leu Asp Asp Phe Gln Gly Ser Phe Cys Gly Gln Asp  
1 5 10 15

<210> 57

<211> 16

<212> PRT

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<400> 57

Asp Phe Gln Gly Ser Phe Cys Gly Gln Asp Leu Arg Phe Pro Leu Thr  
1 5 10 15

<210> 58

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<400> 58

Cys Gly Gln Asp Leu Arg Phe Pro Leu Thr Asn Ala Ile Lys Asp Ala  
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<210> 59

<211> 16

<212> PRT

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<400> 59

Leu Arg Phe Pro Leu Thr Asn Ala Ile Lys Asp Ala Leu Ala Ala Thr  
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<210> 60

<211> 9

<212> PRT

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<400> 60

Leu Val Cys Tyr Tyr Thr Ser Trp Ser  
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<210> 61

<211> 9

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<400> 61

Phe Leu Cys Thr His Ile Ile Tyr Ser  
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<210> 62

<211> 9

<212> PRT

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<223> Description of Artificial Sequence: DERIVED FROM  
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<400> 62

Ile Ile Tyr Ser Phe Ala Asn Ile Ser  
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<210> 63

<211> 9

<212> PRT

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SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

<400> 63

Leu Lys Thr Leu Leu Ser Val Gly Gly  
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<210> 64

<211> 9

<212> PRT

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<400> 64

Phe Ile Lys Ser Val Pro Pro Phe Leu  
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<400> 65

Phe Asp Gly Leu Asp Leu Ala Trp Leu  
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<400> 66

Leu Tyr Pro Gly Arg Arg Asp Lys Gln  
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<210> 67  
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<400> 67

Tyr Asp Ile Ala Lys Ile Ser Gln His  
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<210> 68  
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<400> 68

Leu Asp Phe Ile Ser Ile Met Thr Tyr

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<210> 69

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<400> 69

Phe Ile Ser Ile Met Thr Tyr Asp Phe

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<400> 70

Phe Arg Gly Gln Glu Asp Ala Ser Pro

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<400> 71

Tyr Ala Val Gly Tyr Met Leu Arg Leu

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Met Leu Arg Leu Gly Ala Pro Ala Ser

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<400> 73

Leu Ala Tyr Tyr Glu Ile Cys Asp Phe

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<210> 74  
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<400> 74

Leu Arg Gly Ala Thr Val His Arg Thr

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<400> 75

Tyr Leu Lys Asp Arg Gln Leu Ala Gly  
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<210> 76

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SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

<400> 76

Leu Ala Gly Ala Met Val Trp Ala Leu  
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<210> 77

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: DERIVED FROM  
SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

<400> 77

Val Trp Ala Leu Asp Leu Asp Asp Phe  
1 5

<210> 78

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: DERIVED FROM  
SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

Leu Asp Leu Asp Asp Phe Gln Gly Ser  
1 5

1

5